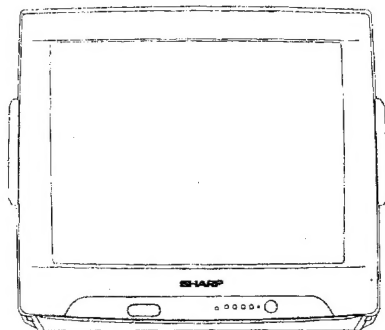


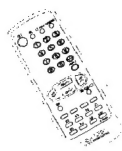
SHARP SERVICE MANUAL

SELW54DM12FP/

CA-1 CHASSIS



54DM-12FP



PAL/SECAM SYSTEM COLOUR TELEVISION

MODEL 54DM-12FP

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

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• SERVICE ADJUSTMENTS	4-10	WAVEFORMS	14-18
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SHARP CORPORATION

IMPORTANT SERVICE NOTES

Maintenance and repair of this receiver should be carried out by qualified service personnel only.

SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove static charge from it by connecting a 10 k ohm resistor in series with an insulated wire (such as a test probe) between picture tube ground tag and high voltage lead (AC line cord should be disconnected from AC outlet).

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage completely.

X-RAY

This receiver is designed so that any X-Ray radiation is kept to an absolute minimum. Since certain malfunctions or servicing may produce potentially hazardous radiation with prolonged exposure at close range, the following precautions should be observed.

1. When repairing the circuit, be sure not to increase the high voltage to more than 30.0 kV (at beam 1000 μ A) for the set.
2. To keep the set in a normal operation, be sure to make it function on 23.5 kV \pm 1.5 kV (at beam 800 μ A), in the case of the set. The set has been factory adjusted to the above mentioned high voltage. If there is a possibility that the high voltage fluctuates as result of the repairs, never forget to check for such high voltage after the work.
3. Do not substitute a picture tube with unauthorized types or brands which may cause excess X-Ray radiation.

BEFORE RETURNING THE RECEIVER

Before returning the receiver to the user, perform the following safety checks.

1. Inspect all lead insulation to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.

SERVICE ADJUSTMENTS

■ SERVICE MODE FUNCTION

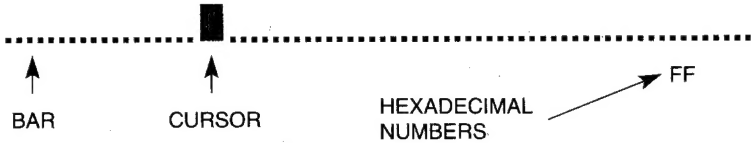
This mode function is provided to assist with the settings of those adjustments that may vary from one Picture Tube to another, or between models.

In order to use the Service Mode

- 1. Press main switch to OFF.
 - 2. Connect Test Pattern signal to antenna terminal.
 - 3. Press ∇ \triangle and CH \wedge buttons and main switch to ON simultaneously.
 - 4. -SERV- will appear on screen. Service mode is now entered.
 - 5. Select adjustment using buttons \wedge CH ∇ .
- To exit service mode, press main switch to OFF or press MENU button on R/C.

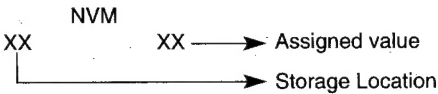
	Displayed on Screen	Hexadecimal Range	Function
a.	-SERV-		Indicates operative Service Mode.
b.	AGC	00 ~ 3F	Auto Gain Control.
c.	AFT	00 ~ 7F	Auto Frequency Control
d.	H-SHFT	00 ~ 3F	Horizontal Position shift
e.	V-SHFT	00 ~ 3F	Vertical Position shift.
f.	V-AMPL	00 ~ 3F	Vertical Amplitude shift.
g.	V-SLOP	00 ~ 3F	Vertical Symmetry alteration.
h.	V-DLY	00 ~ CF	VIDEO Delay.
i.	GAIN R	00 ~ 3F	Red Gain.
j.	GAIN G	00 ~ 3F	Green Gain.
k.	GAIN B	00 ~ 3F	Blue Gain.
	NVM		Access to NVM memory.

6. For "a" thru j selections.
- Adjustment to a selection can be made by pressing buttons \wedge \triangle ∇).
- A colour bar is displayed on the OSD to indicate the adjustment position, together with hexadecimal numbers (Not for GII adjustment).



For "k" Selection.

NVM storage location settings variants.



In order to have access to the desired storage location, buttons \wedge \triangle ∇ should be pressed, as required, to obtain a higher or lower location, respectively. Bear in mind that, for storage location indication a hexadecimal numerical system is used, instead of a decimal system.

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, 10, 11,19, 1A, 1B, 1C, 1D, 1E, 1F, 20, 21, 99, 9A, 9B, 9C, 9D, 9E, 9F, A0, A1, B0, C0, D0, E0, F0, F1, F2, F3, F4, F5, F6, F7, F8, F9, FA, FB, FC, FD, FE, FF.

From the last location FF to the first 00 can be reached by increasing and from first to last by decreasing. Once the storage location to be varied has been selected, its value can be modified by the bits that form part of the storage location numerical buttons, numbers $\boxed{0}$ to $\boxed{7}$, respectively. This switches its binary number from and between 0 and 1 each time one of the buttons is pressed.

$\boxed{0} = 2^0 = 1, \boxed{1} = 2^1 = 2, \boxed{2} = 2^2 = 4, \dots$

ADD (HEX)	DESCRIPTION																
00	RED COLOUR TEMPERATURE																
01	GREEN COLOUR TEMPERATURE																
02	BLUE COLOUR TEMPERATURE																
03	VERTICAL SHIFT																
04	HORIZONTAL SHIFT																
05	VERTICAL AMPLITUDE																
06	VERTICAL SLOPE																
07	LUMA DELAY PAL																
08	LUMA DELAY SECAM																
09	S-CORRECTION																
0A	AGC																
0B	<div>OPTIONS:<table><tr><td>ING_OSD</td><td>A_F</td><td>CHL</td><td>PAL</td><td>UHF</td><td>T_LOCK</td><td>AV-F</td><td>FP</td></tr><tr><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td></tr></table><p>0: FP: SYSTEM B/G (0) - B/G+L, MESSAGE RECHERCHE (1) 1: AV FRONTAL: NOT INCLUDED (0) , INCLUDED (1) 2: TUNING LOCK (HOTEL): LOCKED+SWITCH-ON PR1 (1), NO LOCKED (0) 3: UHF-ONLY: BAND UHF (1) - ALL BANDS (0) 4: PAL ONLY (1), PAL+SECAM (0) 5: CHILD LOCK: CHILD LOCK ACTIVE (1) CHILD LOCK NO ACT (0) 6: AUTO FIRST: TUNING FIRST MENU: AUTO (1) MANUAL (0) 7: ING_OSD: OSD_INGLES (1) OSD-SYMBOL (0) VALUE=61H</p></div>	ING_OSD	A_F	CHL	PAL	UHF	T_LOCK	AV-F	FP	7	6	5	4	3	2	1	0
ING_OSD	A_F	CHL	PAL	UHF	T_LOCK	AV-F	FP										
7	6	5	4	3	2	1	0										
0C	AFT ADJUSTMENT VALUE (B/G, L SYSTEMS)																
0D	AFT ADJUSTMENT VALUE (L' SYSTEM)																
0E	MAXIMUM VOLUME LIMIT																
0F	FIRM																
10	RED COLOUR TEMPERATURE																
11	GREEN COLOUR TEMPERATURE																
12	BLUE COLOUR TEMPERATURE																
13	VERTICAL SHIFT																
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18	LUMA DELAY SECAM																
19	S-CORRECTION																
1A	AGC																

1B	OPTIONS: <table><tr><td>ING_OSD</td><td>A_F</td><td>CHL</td><td>PAL</td><td>UHF</td><td>T_LOCK</td><td>AV_F</td><td>FP</td></tr><tr><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td></tr></table> <p>0: FP: SYSTEM B/G (0) - B/G+L, MESSAGE RECHERCHE (1) 1: AV FRONTAL: NOT INCLUDED (0), INCLUDED (1) 2: TUNING LOCK (HOTEL): LOCKED+SWITCH-ON PR1 (1), NO LOCKED (0) 3: UHF-ONLY: BAND UHF (1) - ALL BANDS (0) 4: PAL ONLY (1), PAL+SECAM (0) 5: CHILD LOCK: CHILD LOCK ACTIVE (1) CHILD LOCK NO ACT (0) 6: AUTO FIRST: TUNING FIRST MENU: AUTO (1) MANUAL (0) 7: ING_OSD: OSD_INGLES (1) OSD_SYMBOL (0) VALUE=61H</p>	ING_OSD	A_F	CHL	PAL	UHF	T_LOCK	AV_F	FP	7	6	5	4	3	2	1	0
ING_OSD	A_F	CHL	PAL	UHF	T_LOCK	AV_F	FP										
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ING_OSD	A_F	CHL	PAL	UHF	T_LOCK	AV_F	FP										
7	6	5	4	3	2	1	0										
2C	AFT ADJUSTMENT VALUE (B/G, L SYSTEMS)																
2D	AFT ADJUSTMENT VALUE (L' SYSTEM)																
2E	MAXIMUM VOLUME LIMIT																
2F	FIRM																
30	TABLE LONG																
31	FIRM																
32	AGING ON. AUTOMATIC SWITCH ON.																
33	SWITCH ON DELAY TIME																

34	VOLUME
35	CONTRAST
36	COLOUR
37	BRIGHTNESS
38	PEAKING (RANGE: 0-3FH)
39	ACTUAL PROGRAMM
3A	TV STATE ON/OFF
3B	HUE
3C	CONTRAST (FACTORY PRESET)
3D	COLOUR (FACTORY PRESET)
3E	BRIGHTNESS (FACTORY PRESET)
3F	PEAKING (RANGE: 0-3FH)(FACTORY PRESET)
40	ON TIMER LAST VALUE
41	OFF TIMER LAST VALUE
42	OSD STATE BIT 0: PICTURE NORM ON/OFF BIT 1: SCART/AV LOCKED BIT 2: FRONTAL LOCKED BIT 3: ROW 8/30 PERM.(RESERVED-PROG. INTERNALLY) BIT 4: PIN NUMBER OPTION (0-NOT APPEAR, 1-APPEAR) BIT 5: CLOCK STATE (PROGRAMMED INTERNALLY) BIT 6: ELIMINATE VERTICAL WHITE BARS IN MENUS BIT 7: (1) REAL_TIMER + ALARM / (0) ON_TIMER VALUE=51H
43	BKGD USER'S CORRECTION (NOT USED IN THIS MODEL)
44	BKGD USER'S CORRECTION PRESET VALUE (NORMALIZED) (")
45	VOLTAGE LIMIT BETWEEN L'-L SYSTEM (MSB)
46	VOLTAGE LIMIT BETWEEN L'-L SYSTEM (LSB)
47	HORIZONTAL OSD OFFSET BIT 7: DIRECTION SIGN: (0) INCREASE (1) DECREASE BIT 6: DON'T CARE BIT 5 - BIT 0: OFFSET VALUE
48	PROG SEARCH SPEED ALL BAND -HIGH NIBBLE CMPLEMENTED-
49	PROG SEARCH SPEED (VHL BAND) -HIGH NIBBLE CMPLEMENTED-
4A	PROG SEARCH SPEED (VHL BAND) -HIGH NIBBLE CMPLEMENTED-
4B	PROG SEARCH SPEED (VHH BAND) -HIGH NIBBLE CMPLEMENTED-
4C	CHANNEL RANGE IN FACTORY AUTOINSTALL
4D	PASSWORD ON (1)/OFF (0)
4E	PASSWORD FIRST DIGIT
4F	PASSWORD SECOND DIGIT
50	PASSWORD THIRD DIGIT
51	PASSWORD FOURTH DIGIT
52	FREE

53	OSD WORD 1: BIT 0:OSD PROG SIZE. 0= LARGE (14") 1= SHORT (21") BIT 1:OSD PROG DISPLAYED TIME. 0=SHORT TIME / 1= LONG TIME
54	RED REFERENCE FOR AUTO BKGD ADJUSTMENT
55	GREEN REFERENCE FOR AUTO BKGD ADJUSTMENT
56	BLUE REFERENCE FOR AUTO BKGD ADJUSTMENT
57	CONTROL_2: OSO, VSD, CB, BLS, BKS, CS1, CS0, BB VALUE= 09AH
58	CONTROL_3: HOB, BPS, ACL, CMB, AST, CL2, CL1, CL0 VALUE= 024H
59	VERTICAL ZOOM APPROX. VALUE= 0DH
5A	VERTIVAL SCROLL APPROX. VALUE= 020H
5B	CONTROL_0: INA, INB, INC, CCC-D, FOA, FOB, XA, XB VALUE=01AH
5C	CONTROL_1: FORF, FORS, DL, STB, POC, CM2, CM1, CM0 VALUE=0C0H
5D	CONTROL_5: EVG, HCO, LBM, VID, STM, NCIN, VIM, AKB VALUE=026H
5E	CONTROL_6: IFS, AFW, IE1, COR, RBL, MAT, PRD, SBL VALUE=03CH
5F	CONTROL_7: EVSINC, EBS, FFI, HBL, GAI, IE2, DS, DSA VALUE=0H
60	NOT USED
61-FF	PROGRAMS (0-52)
100-18Dh	PROGRAMS (53-99)

■ PIF/AGC Adjustment

1. VCO + AFT Adjustment

1. Connect the output of SSG (Standard Signal Generator) to the tuner IF output terminal.
 - SSG output: 38.9 MHz (CW) ± 5 kHz).
 - SSG output level: approx. 90 dB μ V.
2. Enter into Service Mode.
3. Push CH \wedge until AFT appears.
4. Press \odot button on R/C. Setting is made automatically. During this setting the colour bar shall go from red to yellow. When setting is finished, colour bar disappears and B-STOP (bus stop) is shown on screen.
5. Switch set OFF and ON again, setting is now memorized.

2. RF-AGC Cut-In Adjustment (I2C BUS)

1. Receive the "COLOUR BAR" signal (Channel E-12).
 - Signal strength: 60 dB μ V.
2. Enter into Service Mode.
3. Push CH \wedge until AGC appears.
4. Press \odot button on R/C. Setting is made automatically. During this setting the colour bar shall go from red to yellow. When setting is finished, colour bar disappears and B-STOP (bus stop) is shown on screen.
5. Switch set OFF and ON again, setting is now memorized.

■ Screen Adjustment

3. Focus Adjustment

1. Apply mains voltage of 220 V AC/50 Hz to TV.
2. Receive Phillips pattern signal to a level between 60 and 80 dB μ V.
3. Set contrast to 10/10, brightness to 5/10 and colour 0/10.
4. Adjust focus potentiometer to obtain maximum definition.

4. G2 Adjustment

1. Apply mains voltage of 220 V AC/50 Hz to TV.
2. Receive MONOSCOPE PATTERN signal to a level between 60 and 80 dB μ V.
3. Enter into Service Mode. Press the TEXT key of R/C and set to level.
4. Set to the point where the raster disappears on the screen VR of FBT.

■ GEOMETRY ADJUSTMENT PROCEDURE

1. H-SHFT

- Receive Philips pattern signal.
- When \triangle/\wedge button is pressed, picture moves to the left.
- When \triangle/\vee button is pressed, picture moves to the right.
- Adjust the horizontal location to obtain picture centering (fig. 1)

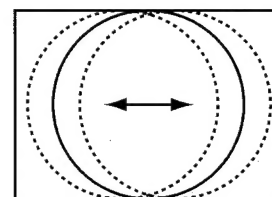


Fig.1

2. V-SHFT

- Receive Philips pattern signal.
- When \triangle/\wedge button is pressed, picture moves up.
- When \triangle/\vee button is pressed, picture moves down.
- Adjust the horizontal location to obtain picture centering (fig. 2)

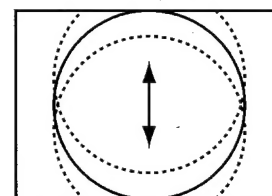


Fig.2

3. V-AMPL

- Receive Philips pattern signal.
- When \triangle/\wedge button is pressed, vertical size of picture increases.
- When \triangle/\vee button is pressed, vertical size of picture decreases.
- Adjust the vertical size to obtain overscan (fig. 3).

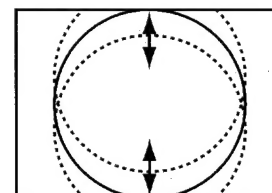


Fig.3

4. V-SLOP

- Receive Philips pattern signal.
- When \triangle/\wedge button is pressed, upper picture scanning decreases and lower picture scanning increases.
- When \triangle/\vee button is pressed, upper picture scanning increases and lower picture scanning decreases.
- Adjust the vertical symmetry to obtain symmetrical scanning between upper and lower picture (fig. 4).

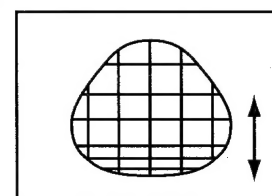


Fig.4

COLOUR ADJUSTMENT

5. V-DLY

- Receive Philips pattern signal.
- When \triangle/\wedge button is pressed, luma phase delays.
- When \triangle/\vee button is pressed, chroma phase delays.
- Adjust the chroma-luma delay.

The following adjustments are only required when the Picture Tube is changed.

6. "GAIN R", "GAIN G", "GAIN B".






- Adjust G2.
- Tune in white card.
- Adjust colour to minimum.
- Position colourmeter in the center of screen.
- Using brightness and contrast buttons, select a luminance of ≈ 120 nits.
- Operate again in Service Mode and select location GAIN R, GAIN B to obtain colour coordinates:
 $X = 0.290 \pm 0.015$
 $Y = 0.284 \pm 0.015$
- Exit Service Mode and check colour coordinates 'X' and 'Y' at 20 and 120 NITS. It may be necessary to repeat procedure.

NOTE:

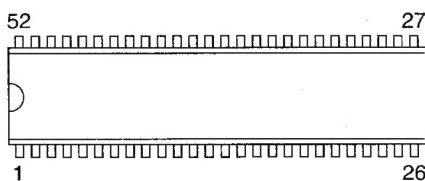
Locations: GAIN R alter 'X' coordinate; GAIN G alter the 'Y' coordinates; GAIN B alter the 'X' and 'Y' coordinates.

■ CHILD LOCK CANCEL

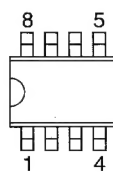
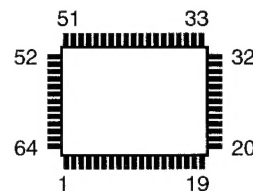
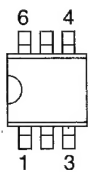
The following process describes how to cancel actual password (PIN) when the customer forgets code.

1. Switch ON TV set.
2. Press button  on TV and  on R/C simultaneously.
3. Press MENU button on R/C to input menu.
4. Using buttons  CH  move to  position.
5. Press MENU button again.
6. Select PIN and input new PIN (Please do not forget it)
7. Select EXIT and press MENU button again.

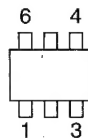
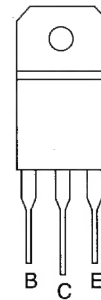
SOLID STATE DEVICE BASE DIAGRAM



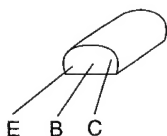
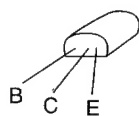
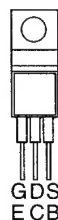
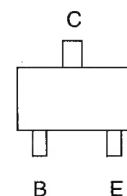
RH-IX1632BMN1

CH-IX1640CJF3
(SMD COMPONENT)RH-IX1630BMZZ
(SMD COMPONENT)RH-FX0106BMZZ
(SMD COMPONENT)

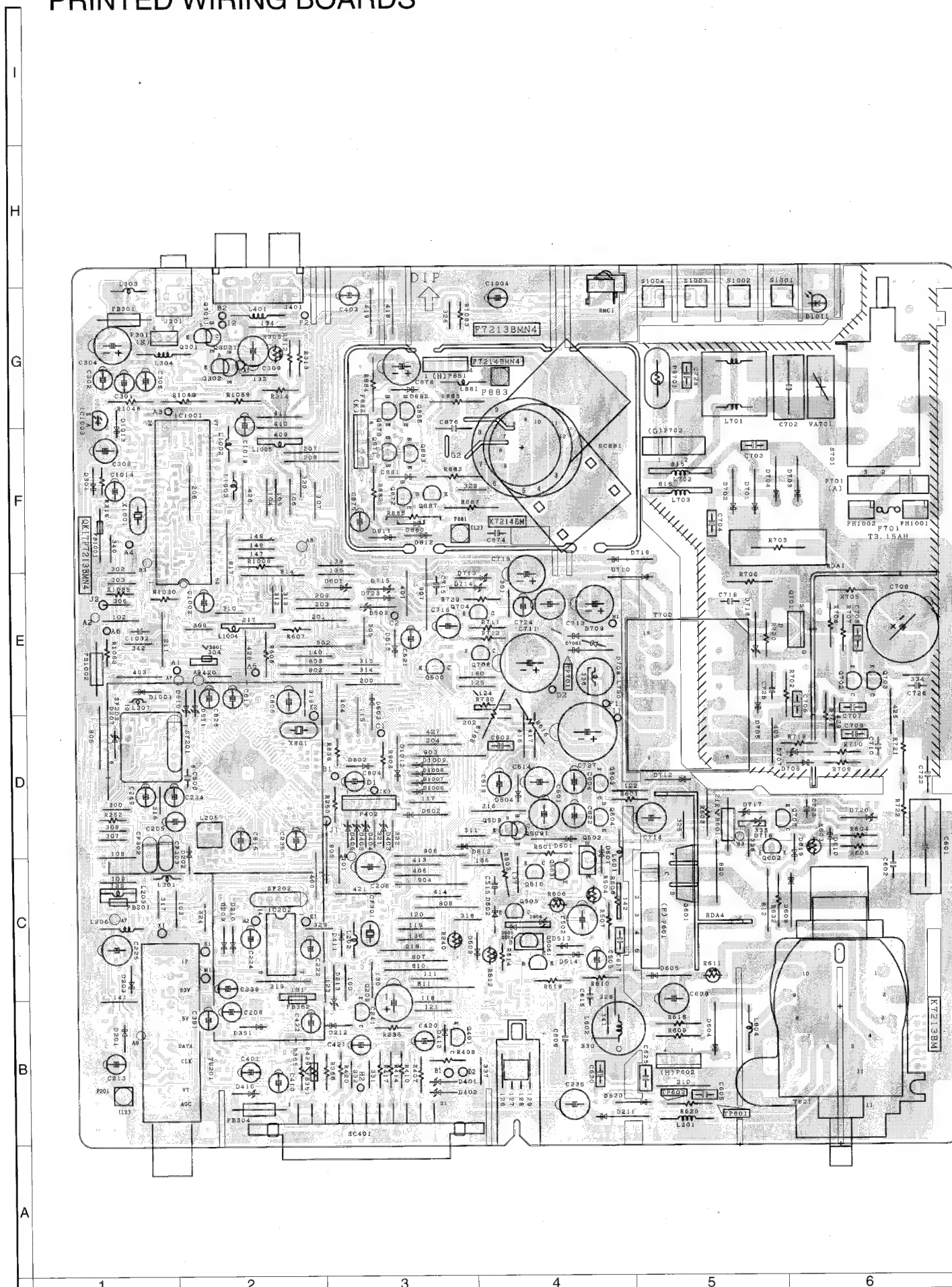
RH-IX0037CEZZ

VSiMT1A/A/-1
(SMD COMPONENT)

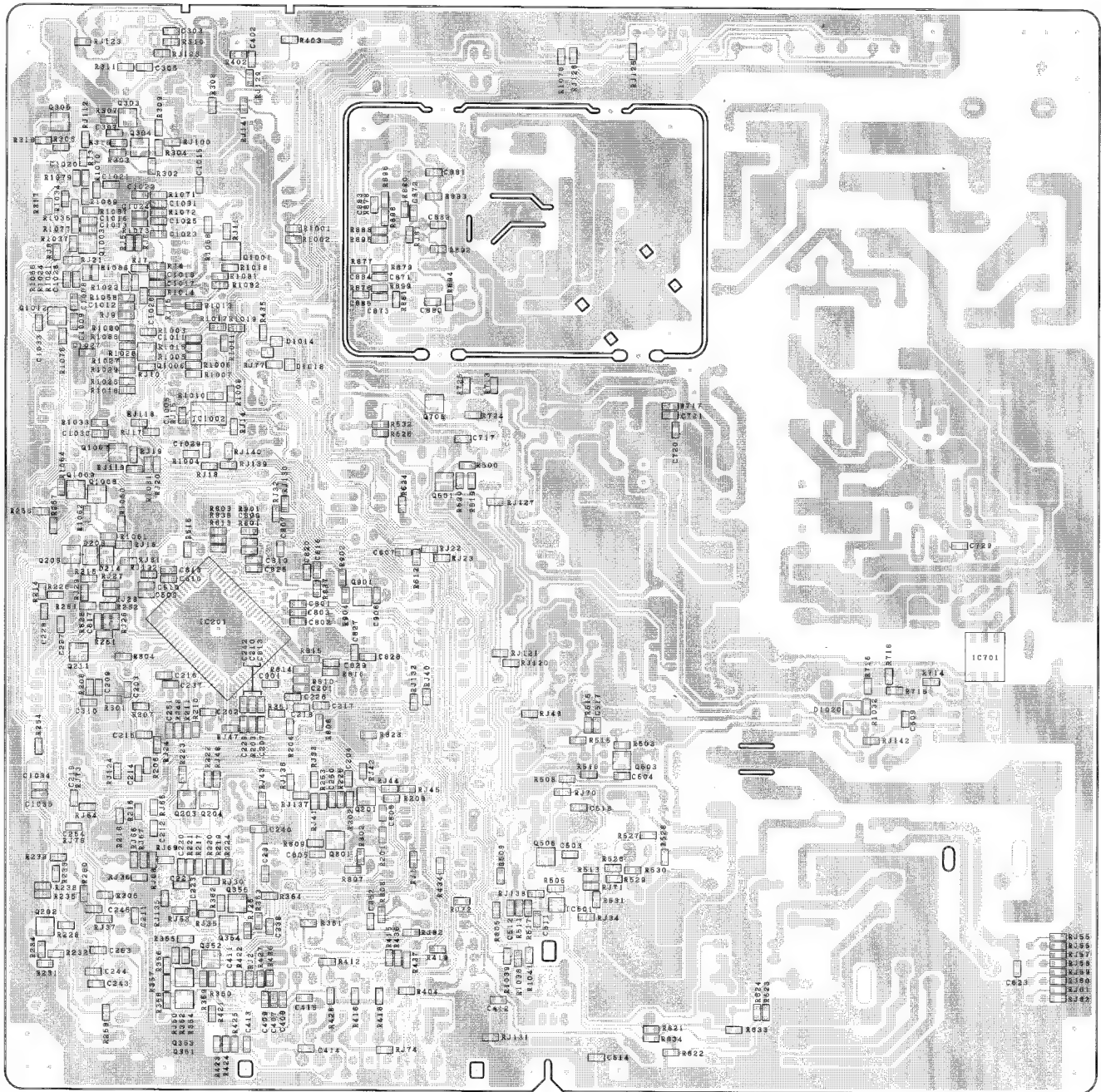
RH-TX0132BMZZ

RH-TX0102BMZZ
RH-TX0104BMZZ
RH-TX0105BMZZ
RH-TX0142BMZZ
RH-TX0130BMZZRH-TX0108BMZZ
RH-TX0112BMZZ
RH-TX0118BMZZ
RH-TX0181BMZZ
RH-TX0180BMZZRH-TX0128BMZZ
RH-TX0140BMZZ
RH-TX0141BMZZRH-TX0152BMZZ
RH-TX0153BMZZ
RH-TX0113BMZZ
VS2SA1037KQ-1
VS2SC2412KQ-1
(SMD COMPONENT)

PRINTED WIRING BOARDS



PRINTED WIRING BOARDS



DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTE:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" () ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SERVICE PRECAUTION:

THE AREA ENCLOSED BY THIS LINE (■ ■) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE.

WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER.

BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

NOTE:

1. The unit of resistance "ohm" is omitted (K=1000 ohms, M=Megaohm).
2. All resistors are 1/8 watt, unless otherwise noted.
3. All capacitors are μF , unless otherwise noted (P= $\mu\mu\text{F}$).
4. The capacitor with Part No. RC-FZ9XXXBMNJ is designed to withstand 63V.

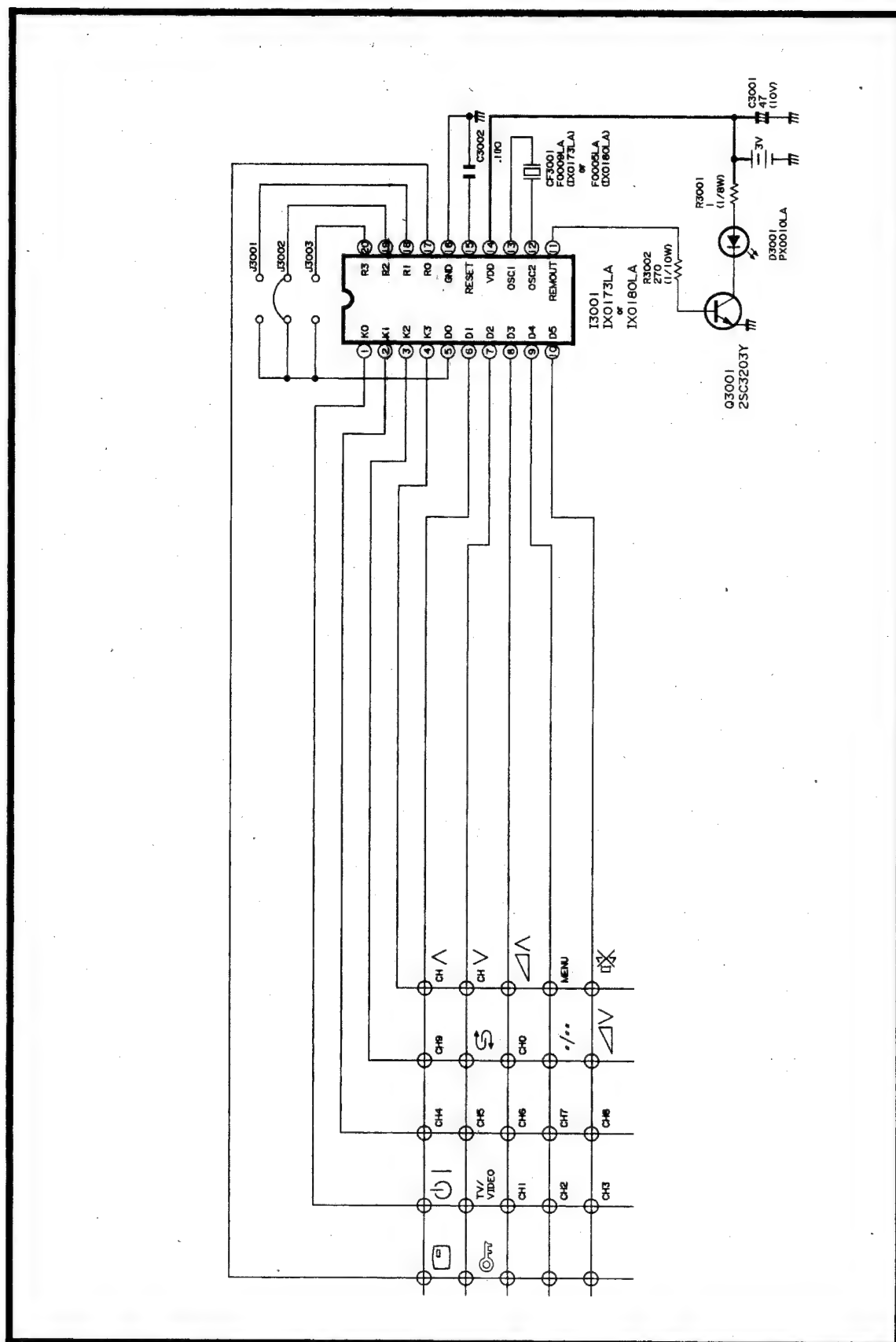
WAVEFORM MEASUREMENT

CONDITIONS:

Colour bar generator signal of 70 dB from RF input.

CAUTION:

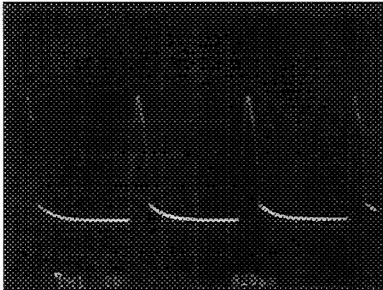
This circuit diagram is original one, therefore there may be a slight difference from yours.



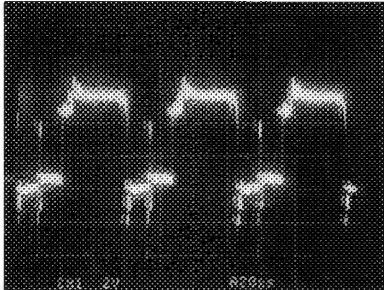
WAVE FORMS



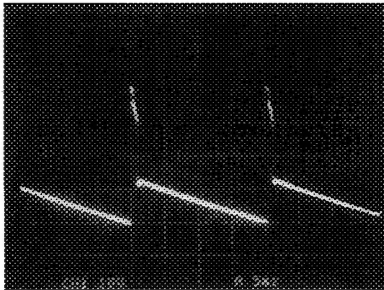
①
100 : 1



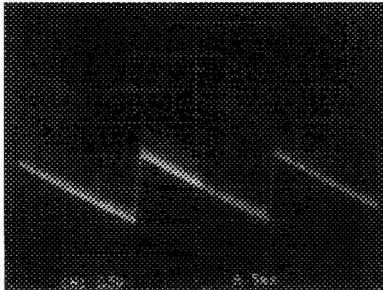
②
780V p-p
100 : 1



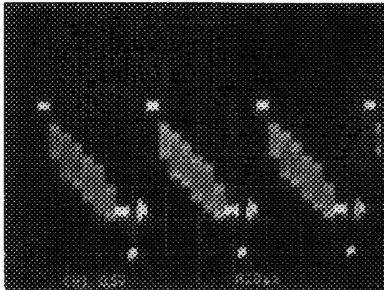
③



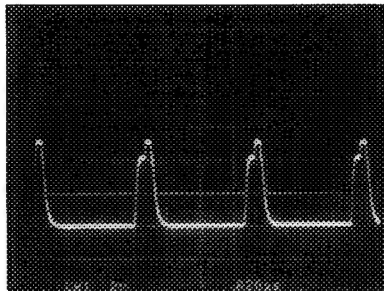
④
40.1Vp-p



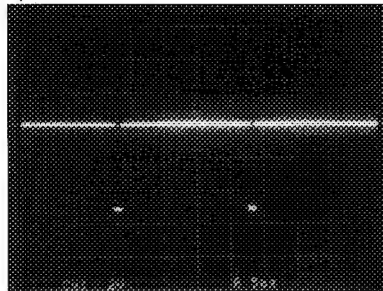
⑤
1Vp-p



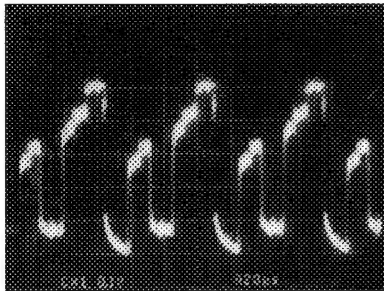
⑥



⑦

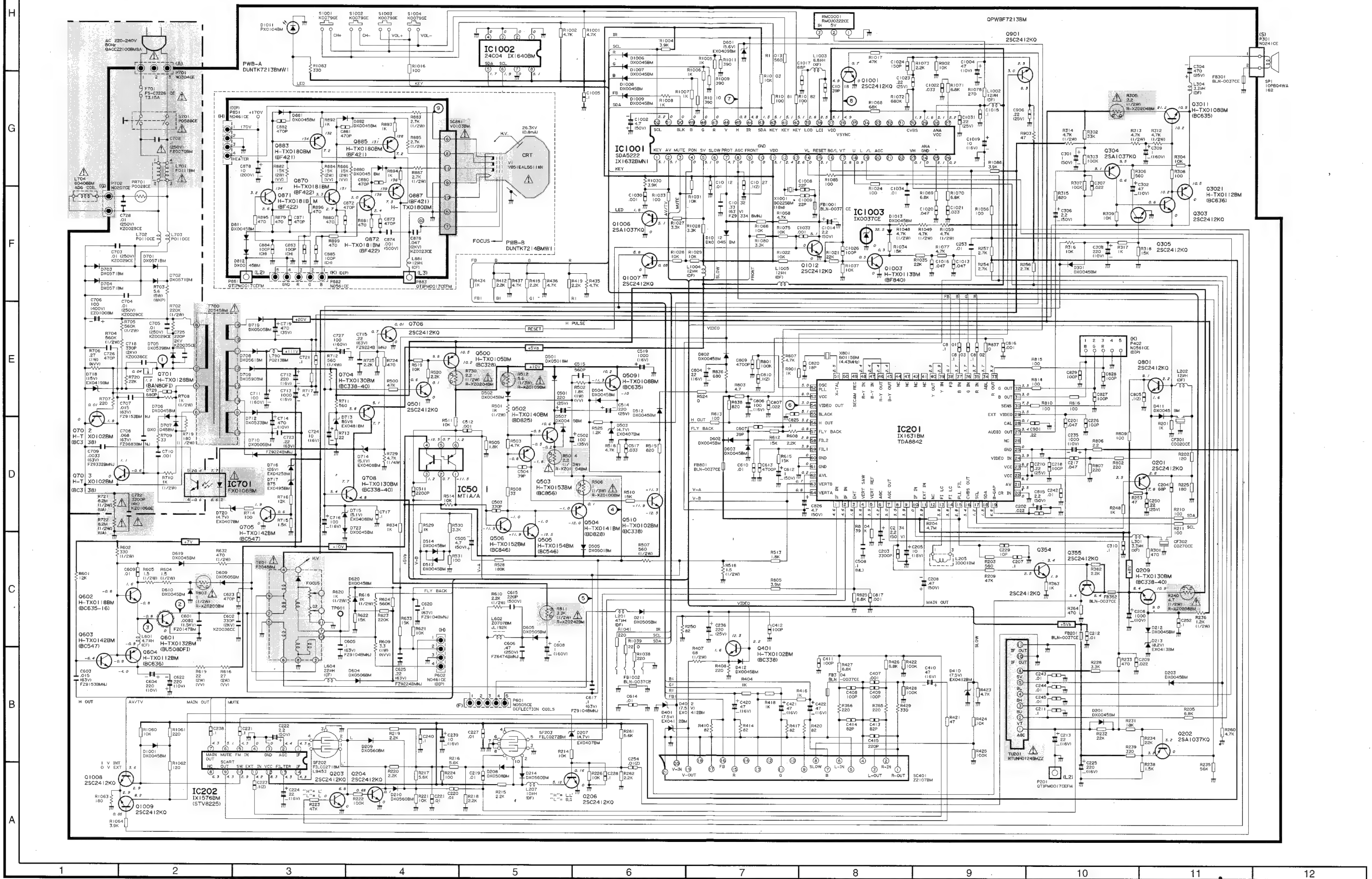


⑧
5Vp-p



⑨
50.6Vp-p
100 : 1

MAIN CIRCUIT





PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by Δ in the Replacement Parts Lists.

The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |
| 5. CODE | 6. QUANTITY |

MARK ★: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
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PICTURE TUBE

Δ	VB51EAL5511*N	S	Picture Tube	CM
	MSPRT0001CEFJ	S	CRT Spring	AA
	PSPAG1002BM00	S	Wedge (gum),x4	AB
	QCNW-1064CEZZ	S	Connecting Cord	AC
Δ	RCILG0408BMZZ	S	Degaussing (ADG) Coil	AP

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

DUNTK7213BMW1	-	Mother Unit	—
DUNTK7214BMW1	-	CRT Socket Unit	—

PWB-A DUNTK7213BMW1 MOTHER UNIT

TUNER

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN
ASSEMBLY BUT NOT INDEPENDENTLY.

Δ TU201	RTUNH0124BMZZ	S	Tuner	BA
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INTEGRATED CIRCUITS

IC201	RH-IX1631BMZZ	S	TDA8842	BA
IC202	RH-IX1576BMZZ	S	STV8225	AZ
IC501	VSIMT1A/A/-1	S	Si.Control Rectifier	AB
Δ IC701	RH-FX0106BMZZ	S	Photo Coupler	AP
IC1001	RH-IX1632BMN1	S	I.C.	AV
IC1002	RH-IX1640BMZZ	S	24C04	AL
IC1003	RH-IX0037CEZZ	R	Upc574J	AF

TRANSISTORS

Q201	VS2SC2412KQ-1	R	VS2SC2412	AA
Q202	VS2SA1037KQ-1	R	VS2SA1037	AA
Q203	VS2SC2412KQ-1	R	VS2SC2412	AA
Q204	VS2SC2412KQ-1	R	VS2SC2412	AA
Q206	VS2SC2412KQ-1	R	VS2SC2412	AA
Q209	RH-TX0130BMZZ	S	BC338-40	AB
Q303	VS2SC2412KQ-1	R	VS2SC2412	AA
Q304	VS2SA1037KQ-1	R	VS2SA1037	AA
Q305	VS2SC2412KQ-1	R	VS2SC2412	AA
Q354	VS2SC2412KQ-1	R	VS2SC2412	AA
Q355	VS2SC2412KQ-1	R	VS2SC2412	AA
Q401	RH-TX0102BMZZ	S	BC338	AB
Q500	RH-TX0105BMZZ	S	BC328	AB
Q501	VS2SC2412KQ-1	R	VS2SC2412	AA
Q502	RH-TX0140BMZZ	S	BD825	AC
Q503	RH-TX0153BMZZ	S	BC856	AB

Ref. No.	Part No.	★	Description	Code
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PWB-A DUNTK7213BMW1 MOTHER UNIT(Continued)

TRANSISTORS(Continued)

Q504	RH-TX0141BMZZ	S	BD828	AC
Q505	RH-TX0154BMZZ	S	BC546	AA
Q506	RH-TX0152BMZZ	S	BC846	AA
Q510	RH-TX0102BMZZ	S	BC338	AB
Q601	RH-TX0132BMZZ	S	BU508DUI	AM
Q602	RH-TX0118BMZZ	S	BC635-16	AC
Q603	RH-TX0142BMZZ	S	BC547	AB
Q604	RH-TX0112BMZZ	S	BC636	AB
Q701	RH-TX0128BMZZ	S	BAN80FI	AM
Q702	RH-TX0102BMZZ	S	BC338	AB
Q703	RH-TX0102BMZZ	S	BC338	AB
Q704	RH-TX0130BMZZ	S	BC338-40	AB
Q705	RH-TX0142BMZZ	S	BC547	AB
Q706	VS2SC2412KQ-1	R	VS2SC2412	AA
Q708	RH-TX0130BMZZ	S	BC338-40	AB
Q801	VS2SC2412KQ-1	R	VS2SC2412	AA
Q901	VS2SC2412KQ-1	R	VS2SC2412	AA
Q1001	VS2SC2412KQ-1	R	VS2SC2412	AA
Q1003	RH-TX0113BMZZ	S	BF840	AC
Q1006	VS2SA1037KQ-1	R	VS2SA1037	AA
Q1007	VS2SC2412KQ-1	R	VS2SC2412	AA
Q1008	VS2SC2412KQ-1	R	VS2SC2412	AA
Q1009	VS2SC2412KQ-1	R	VS2SC2412	AA
Q1012	VS2SC2412KQ-1	R	VS2SC2412	AA
Q3011	RH-TX0108BMZZ	S	BC635	AC
Q3021	RH-TX0112BMZZ	S	BC636	AB
Q5091	RH-TX0108BMZZ	S	BC635	AC

DIODES

D201	RH-DX0045BMZZ	S	Diode IN4148	AA
D203	RH-DX0045BMZZ	S	Diode IN4148	AA
D207	RH-EX0407BMZZ	S	Zener Diode	AA
D208	RH-DX0508BMZZ	S	Diode	AB
D209	RH-DX0560BMZZ	S	Diode	AB
D210	RH-DX0560BMZZ	S	Diode	AB
D211	RH-DX0505BMZZ	S	Diode	AB
D212	RH-DX0045BMZZ	S	Diode IN4148	AA
D213	RH-EX0413BMZZ	S	Zener Diode, 8.2V	AB
D214	RH-DX0560BMZZ	S	Diode	AB
D301	RH-DX0045BMZZ	S	Diode IN4148	AA
D401	RH-EX0412BMZZ	S	Zener Diode, 7.5V	AB
D402	RH-EX0412BMZZ	S	Zener Diode, 7.5V	AB
D410	RH-EX0412BMZZ	S	Zener Diode, 7.5V	AB
D411	RH-DX0045BMZZ	S	Diode IN4148	AA
D412	RH-DX0045BMZZ	S	Diode IN4148	AA
D501	RH-DX0501BMZZ	S	Diode	AA
D502	RH-DX0045BMZZ	S	Diode IN4148	AA
D503	RH-EX0407BMZZ	S	Zener Diode, 4.7V	AA
D504	RH-DX0045BMZZ	S	Diode IN4148	AA
D505	RH-DX0501BMZZ	S	Diode	AA
D507	RH-DX0045BMZZ	S	Diode IN4148	AA
D512	RH-DX0045BMZZ	S	Diode IN4148	AA
D513	RH-DX0045BMZZ	S	Diode IN4148	AA

Ref. No.	Part No.	★	Description	Code
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D514	RH-DX0045BMZZ	S	Diode IN4148	AA
D601	RH-EX0409BMZZ	S	Zener Diode, 5.6V	AA
D602	RH-DX0045BMZZ	S	Diode IN4148	AA
D603	RH-DX0045BMZZ	S	Diode IN4148	AA
D604	RH-DX0506BMZZ	S	Diode	AB
D605	RH-DX0505BMZZ	S	Diode	AB
D609	RH-DX0505BMZZ	S	Diode	AB
D610	RH-DX0045BMZZ	S	Diode IN4148	AA
D619	RH-DX0045BMZZ	S	Diode IN4148	AA
D620	RH-DX0045BMZZ	S	Diode IN4148	AA
D701	RH-DX0571BMZZ	S	Diode	AA
D702	RH-DX0571BMZZ	S	Diode	AA
D703	RH-DX0571BMZZ	S	Diode	AA
D704	RH-DX0571BMZZ	S	Diode	AA
D705	RH-DX0539BMZZ	S	Diode	AC
D706	RH-DX0045BMZZ	S	Diode IN4148	AA
D707	RH-DX0045BMZZ	S	Diode IN4148	AA
D708	RH-DX0561BMZZ	S	Diode	AD
D709	RH-DX0590BMZZ	S	Diode	AE
D710	RH-DX0505BMZZ	S	Diode	AB
D712	RH-DX0533BMZZ	S	Diode	AD
D713	RH-EX0481BMZZ	S	Zener Diode, 5.1V	AB
D714	RH-EX0408BMZZ	S	Zener Diode, 5.1V	AB
D715	RH-EX0408BMZZ	S	Zener Diode	AB
D716	RH-EX0425BMZZ	S	Zener Diode	AA
D717	RH-EX0495BMZZ	S	Zener Diode	AB
D718	RH-EX0419BMZZ	S	Zener Diode, 15V	AB
D719	RH-DX0505BMZZ	S	Diode	AB
D720	RH-EX0407BMZZ	S	Zener Diode, 4.7V	AA
D723	RH-DX0045BMZZ	S	Diode IN4148	AA
D802	RH-DX0045BMZZ	S	Diode IN4148	AA
D1001	RH-DX0045BMZZ	S	Diode IN4148	AA
D1006	RH-DX0045BMZZ	S	Diode IN4148	AA
D1007	RH-DX0045BMZZ	S	Diode IN4148	AA
D1008	RH-DX0045BMZZ	S	Diode IN4148	AA
D1009	RH-DX0045BMZZ	S	Diode IN4148	AA
D1011	RH-PX0104BMZZ	S	Photodiode	AC
D1012	RH-DX0045BMZZ	S	Diode IN4148	AA
D1013	RH-DX0045BMZZ	S	Diode IN4148	AA

PACKAGED CIRCUIT

PR701	RMPTP0028CEZZ	S	Packaged Circuit	AG
X801	RCRSB0115BMZZ	S	Crystal	AG
X1001	RCRSB0225BMZZ	S	Crystal	AM

COIL AND TRANSFORMERS

CF301	RFILC0020CEZZ	R	Filter	AE
CF302	RFILC0270CEZZ	R	Filter	AD
L201	VP-DF470K0000	R	Peaking 47μH	AB
L202	VP-DF120K0000	R	Peaking 12μH	AB
L205	RCILI0001BMZZ	S	IF Coil	AE
L207	VP-DF100K0000	R	Peaking 10μH	AB
L301	VP-XF3R3K0000	R	Peaking 3.3μH	AB
L304	VP-DF3R3K0000	R	Peaking 3.3μH	AB
L601	VP-CF4R7K0000	R	Peaking 4.7μH	AB
L602	RCILZ0707BMZZ	S	Coil	AH
L604	VP-CF220K0000	R	Peaking 22μH	AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
PWB-A DUNTK7213BMW1									
MOTHER UNIT(Continued)									
COIL AND TRANSFORMERS(Continued)									
△ L701	RCILF0111BMZZ	S	Coil	AL	C253	VCKYD41CY103N	R 0.01	16V Ceramic	AA
L702	RCILP0110CEZZ	R	Coil	AC	C254	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA
L703	RCILP0110CEZZ	R	Coil	AC	C301	VCEAGA1HW105M	R 1	50V Electrolytic	AC
L790	RCILP0213BMZZ	S	Coil	AF	C302	VCEAGA1AW476M	R 47	10V Electrolytic	AA
L1002	VP-DF120K0000	R	Peaking 12μH	AB	C304	VCEAGA1EW477M	R 470	25V Electrolytic	AD
L1003	VP-XF6R8K0000	R	Peaking 6.8μH	AB	C306	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB
L1004	VP-DF120K0000	R	Peaking 12μH	AB	C307	VCKYTV1HB223K	R 0.022	50V Ceramic	AB
L1005	VP-DF120K0000	R	Peaking 12μH	AB	C308	VCEAGA1AW227M	R 220	10V Electrolytic	AB
SF202	RFILC0271BMZZ	S	Filter	AQ	C309	VCEAGA2CW105M	R 1	160V Electrolytic	AB
SF203	RFILC0272BMZZ	S	Filter	AS	C310	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA
△ T601	RTRNF2048BMZZ	S	H-Volt Transformer	AZ	C407	VCKYTV1HB102K	R 1000p	50V Ceramic	AA
△ T700	RTRNZ0545BMZZ	S	Transformer	AH	C408	VCCCTV1HH101J	R 100p	50V Ceramic	AA
CAPACITORS					C409	VCCCTV1HH101J	R 100p	50V Ceramic	AA
C201	VCKYTV1HF473Z	R 0.047	50V Ceramic	AB	C410	VCEAGA1CW476M	R 47	16V Electrolytic	AB
C202	VCKYTV1HB223K	R 0.022	50V Ceramic	AB	C411	VCCCTV1HH101J	R 100p	50V Ceramic	AA
C203	VCKYTV1HB332K	R 3300p	50V Ceramic	AA	C412	VCCCTV1HH101J	R 100p	50V Ceramic	AA
C204	VCCCTV1HH680J	R 68p	50V Ceramic	AA	C413	VCCCTV1HH820J	R 82p	50V Ceramic	AA
C205	VCEAGA1CW106M	R 10	16V Electrolytic	AA	C414	VCCCTV1HH820J	R 82p	50V Ceramic	AA
C206	VCEAGA1AW108M	R 1000	10V Electrolytic	AD	C415	VCCSTV1HL221J	R 220p	50V Ceramic	AA
C207	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA	C420	VCEAGA1CW476M	R 47	16V Electrolytic	AB
C208	VCEAGA1HW474M	R 0.47	50V Electrolytic	AA	C421	VCEAGA1CW476M	R 47	16V Electrolytic	AB
C209	VCKYTV1HB223K	R 0.022	50V Ceramic	AB	C422	VCEAGA1CW476M	R 47	16V Electrolytic	AB
C210	VCKYTV1EF224Z	R 0.22	25V Ceramic	AA	C501	VCEAGA1EW227M	R 220	25V Electrolytic	AC
C211	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA	C502	VCEAGA1VW107M	R 100	35V Electrolytic	AC
C212	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA	C503	VCCSTV1HL331J	R 330p	50V Ceramic	AA
C213	VCEAGA1CW226M	R 22	16V Electrolytic	AB	C504	VCCCTV1HH390J	R 39p	50V Ceramic	AA
C217	VCKYTV1HF473Z	R 0.047	50V Ceramic	AB	C505	VCEAGA1HW475M	R 4.7	50V Electrolytic	AB
C218	VCCCTV1HH101J	R 100p	50V Ceramic	AA	C508	VCQYTA1HM104J	R 0.1	50V Mylar	AB
C219	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA	C511	VCKYTV1HB222K	R 2200p	50V Ceramic	AA
C220	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA	C512	VCKYTV1HB102K	R 1000p	50V Ceramic	AA
C221	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA	C514	VCEAGA1EW227M	R 220	25V Electrolytic	AC
C222	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB	C515	VCKYPA1HB561K	R 560p	50V Ceramic	AA
C223	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA	C517	VCKYTV1HB333K	R 0.033	50V Ceramic	AA
C224	VCEAGA1CW226M	R 22	16V Electrolytic	AB	C519	VCEAGA1CW108M	R 1000	16V Electrolytic	AD
C225	VCEAGA1CW227M	R 220	16V Electrolytic	AC	C601	RC-FZ0147BMZZ	S 0.0062	1.5kV Mylar	AE
C226	VCCCTV1HH101J	R 100p	50V Ceramic	AA	C602	RC-KZ0036CEZZ	R 330p	2kV Ceramic	AB
C227	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA	C603	RC-FZ9153BMNJ	S 0.015	63V Mylar	AB
C228	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA	C604	VCEAGA1AW227M	R 220	10V Electrolytic	AB
C229	VCCCTV1HH100D	R 10p	50V Ceramic	AA	C605	RC-FZ9104BMNJ	S 0.1	63V Mylar	AB
C231	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA	C606	RC-FZ6474BMNJ	S	Capacitor	AE
C234	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB	C607	VCCCTV1HH390J	R 39p	50V Ceramic	AA
C235	VCEAGA1AW108M	R 1000	10V Electrolytic	AC	C608	VCEAGA2CW105M	R 1	160V Electrolytic	AB
C236	VCEAGA1EW227M	R 220	25V Electrolytic	AC	C609	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA
C238	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA	C610	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA
C239	VCEAGA1CW106M	R 10	16V Electrolytic	AA	C612	VCEAGA1HW105M	R 1	50V Electrolytic	AC
C240	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA	C613	VCKYTV1HB472K	R 4700p	50V Ceramic	AA
C242	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA	C614	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA
C243	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA	C615	VCKYPA2HB221K	R 220p	500V Ceramic	AA
C244	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA	C617	RC-FZ9104BMNJ	S 0.1	63V Mylar	AB
C245	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA	C620	RC-FZ9104BMNJ	S 0.1	63V Mylar	AB
C250	VCKYTV1EF224Z	R 0.22	25V Ceramic	AA	C622	VCEAGA1AW227M	R 220	10V Electrolytic	AB
C252	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA	C623	VCCSTV1HL471J	R 470p	50V Ceramic	AA
					△ C702	RC-FZ0070BMZZ	S 0.1	250V Mylar	ADS
					C703	RC-KZ0029CEZZ	R 0.01	250V Ceramic	AC
					C704	RC-KZ0029CEZZ	R 0.01	250V Ceramic	AC
					C705	RC-KZ0029CEZZ	R 0.01	250V Ceramic	AC

Ref. No.	Part No.	★	Description	Code
PWB-A DUNTK7213BMW1				
MOTHER UNIT(Continued)				
CAPACITORS(Continued)				
C706	RC-EZ0100BMZZ	S 100	400V Electrolytic	AM
C707	RC-FZ9153BMNJ	S 0.015	63V Mylar	AB
C708	RC-FZ9683BMNJ	S 0.068	63V Mylar	AB
C709	RC-FZ9332BMNJ	S 3300p	63V Mylar	AA
C710	VCKYPA1HB102K	R 1000p	50V Ceramic	AA
C711	VCEAGH2CW107M	R 100	160V Electrolytic	AE
C712	VCEAGA1CW227M	R 220	16V Electrolytic	AC
C713	VCEAGA1CW108M	R 1000	16V Electrolytic	AD
C714	VCEAGA1AW477M	R 470	10V Electrolytic	AC
C715	RC-FZ9224BMNJ	S 0.22	63V Mylar	AC
C716	VCEAGA1CW107M	R 100	16V Electrolytic	AB
C717	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA
C719	VCEAGA1VW477M	R 470	35V Electrolytic	AD
C721	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA
△ C722	RC-KZ0106GEZZ	R 3300p	4kV Ceramic	AG
C723	RC-FZ9224BMNJ	S 0.22	63V Mylar	AC
C724	VCEAGA1CW106M	R 10	16V Electrolytic	AA
C725	RC-KZ0035CEZZ	R 220p	2kV Ceramic	AB
C726	VCKYPA1HB471K	R 470p	50V Ceramic	AA
C727	VCEAGH2CW107M	R 100	160V Electrolytic	AE
C728	RC-KZ0029CEZZ	R 0.01	250V Ceramic	AC
C729	VCKYTV1HB681K	R 680p	50V Ceramic	AA
C801	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA
C802	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA
C803	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA
C804	VCEAGA1HW226M	R 22	50V Electrolytic	AB
C805	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA
C806	VCEAGA1CW107M	R 100	16V Electrolytic	AB
C807	VCKYTV1HB223K	R 0.022	50V Ceramic	AB
C809	VCKYTV1HB472K	R 4700p	50V Ceramic	AA
C810	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA
C815	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB
C816	VCKYTV1HB102K	R 1000p	50V Ceramic	AA
C817	VCKYTV1HB102K	R 1000p	50V Ceramic	AA
C820	VCCCTV1HH180J	R 18p	50V Ceramic	AA
C825	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA
C826	VCEAGA1HW475M	R 4.7	50V Electrolytic	AB
C827	VCCCTV1HH101J	R 100p	50V Ceramic	AA
C828	VCCCTV1HH101J	R 100p	50V Ceramic	AA
C829	VCCCTV1HH101J	R 100p	50V Ceramic	AA
C901	VCKYTV1HF224Z	R 0.22	50V Ceramic	AC
C906	VCKYTV1EF224Z	R 0.22	25V Ceramic	AA
C1002	VCEAGA1HW475M	R 4.7	50V Electrolytic	AB
C1004	VCEAGA1AW476M	R 47	10V Electrolytic	AA
C1005	VCKYTV1HF473Z	R 0.047	50V Ceramic	AB
C1008	VCCCTV1HH220J	R 22p	50V Ceramic	AA
C1009	VCCCTV1HH220J	R 22p	50V Ceramic	AA
C1012	VCKYTV1HF103Z	R 0.01	50V Ceramic	AA
C1013	VCKYTV1HF473Z	R 0.047	50V Ceramic	AB
C1014	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB
C1015	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA
C1016	VCKYTV1HF473Z	R 0.047	50V Ceramic	AB
C1017	VCCCTV1HH680J	R 68p	50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code
C1018	VCCCTV1HH390J	R 39p	50V Ceramic	AA
C1019	VCEAGA1CW106M	R 10	16V Electrolytic	AA
C1020	VCKYTV1HF473Z	R 0.047	50V Ceramic	AB
C1021	VCKYTV1HB333K	R 0.033	50V Ceramic	AA
C1022	VCKYTV1HB333K	R 0.033	50V Ceramic	AA
C1023	VCKYTV1EF224Z	R 0.22	25V Ceramic	AA
C1024	VCCCTV1HH151J	R 150p	50V Ceramic	AA
C1026	VCCCTV1HH101J	R 100p	50V Ceramic	AA
C1027	VCKYTV1HF104Z	R 0.1	50V Ceramic	AA
C1030	VCKYTV1HB102K	R 1000p	50V Ceramic	AA
C1031	VCKYTV1EF224Z	R 0.22	25V Ceramic	AA
C1032	RC-FZ9334BMZZ	S 0.33	63V Mylar	AC
C1033	VCKYTV1HB102K	R 1000p	50V Ceramic	AA
C1034	VCKYD41CY103N	R 0.01	16V Ceramic	AA

RESISTORS

R201	VRS-TV1JD102J	R 1k	1/16W Metal Oxide	AA
R202	VRS-TV1JD121J	R 120	1/16W Metal Oxide	AA
R203	VRS-TV1JD561J	R 560	1/16W Metal Oxide	AA
R204	VRS-TV1JD475J	R 4.7M	1/16W Metal Oxide	AA
R205	VRS-TV1JD682J	R 6.8k	1/16W Metal Oxide	AA
R209	VRS-TV1JD473J	R 47k	1/16W Metal Oxide	AA
R210	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R211	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R214	VRS-TV1JD103J	R 10k	1/16W Metal Oxide	AA
R215	VRS-TV1JD222J	R 2.2k	1/16W Metal Oxide	AA
R216	VRS-TV1JD562J	R 5.6k	1/16W Metal Oxide	AA
R217	VRS-TV1JD562J	R 5.6k	1/16W Metal Oxide	AA
R218	VRS-TV1JD222J	R 2.2k	1/16W Metal Oxide	AA
R219	VRS-TV1JD222J	R 2.2k	1/16W Metal Oxide	AA
R220	VRS-TV1JD222J	R 2.2k	1/16W Metal Oxide	AA
R221	VRS-TV1JD103J	R 10k	1/16W Metal Oxide	AA
R222	VRS-TV1JD104J	R 100k	1/16W Metal Oxide	AA
R223	VRS-TV1JD473J	R 47k	1/16W Metal Oxide	AA
R224	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R225	VRS-TV1JD181J	R 180	1/16W Metal Oxide	AA
R226	VRS-TV1JD103J	R 10k	1/16W Metal Oxide	AA
R228	VRS-TV1JD332J	R 3.3k	1/16W Metal Oxide	AA
R231	VRS-TV1JD183J	R 18k	1/16W Metal Oxide	AA
R232	VRS-TV1JD223J	R 22k	1/16W Metal Oxide	AA
R233	VRS-TV1JD471J	R 470	1/16W Metal Oxide	AA
R234	VRS-TV1JD223J	R 22k	1/16W Metal Oxide	AA
R235	VRS-TV1JD563J	R 56k	1/16W Metal Oxide	AA
R236	VRD-RA2HD122J	R 1.2k	1/2W Carbon	AA
R238	VRS-TV1JD152J	R 1.5k	1/16W Metal Oxide	AA
R239	VRS-TV1JD331J	R 330	1/16W Metal Oxide	AA
△ R240	RR-XZ0208BMZZ	S 4.7	1/2W Fuse Resistor	AA
R248	VRS-TV1JD102J	R 1k	1/16W Metal Oxide	AA
R250	VRD-RA2BE820J	R 82	1/8W Carbon	AA
R253	VRS-TV1JD470J	R 47	1/16W Metal Oxide	AA
R254	VRS-TV1JD272J	R 2.7k	1/16W Metal Oxide	AA
R256	VRS-TV1JD272J	R 2.7k	1/16W Metal Oxide	AA
R257	VRS-TV1JD272J	R 2.7k	1/16W Metal Oxide	AA
R260	VRS-TV1JD472J	R 4.7k	1/16W Metal Oxide	AA
R261	VRS-TV1JD562J	R 5.6k	1/16W Metal Oxide	AA
R262	VRS-TV1JD222J	R 2.2k	1/16W Metal Oxide	AA
R301	VRS-TV1JD471J	R 470	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
PWB-A DUNTK7213BMW1									
MOTHER UNIT(Continued)									
RESISTORS(Continued)									
R302	VRS-TV1JD333J	R	33k 1/16W Metal Oxide	AA	R508	VRS-TV1JD330J	R	33 1/16W Metal Oxide	AA
R303	VRS-TV1JD104J	R	100k 1/16W Metal Oxide	AA	R510	VRS-TV1JD153J	R	15k 1/16W Metal Oxide	AA
R304	VRS-TV1JD103J	R	10k 1/16W Metal Oxide	AA	R511	VRS-TV1JD103J	R	10k 1/16W Metal Oxide	AA
△ R305	RR-XZ0204BMZZ	S	2.2 1/2W Fuse Resistor	AB	△ R512	RR-XZ0109BMZZ	S	5.6 1/3W Fuse Resistor	AB
R306	VRS-TV1JD561J	R	560 1/16W Metal Oxide	AA	R513	VRS-TV1JD182J	R	1.8k 1/16W Metal Oxide	AA
R307	VRS-TV1JD104J	R	100k 1/16W Metal Oxide	AA	R514	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R308	VRS-TV1JD101J	R	100 1/16W Metal Oxide	AA	R515	VRS-TV1JD821J	R	820 1/16W Metal Oxide	AA
R309	VRS-TV1JD103J	R	10k 1/16W Metal Oxide	AA	R516	VRS-TV1JD472J	R	4.7k 1/16W Metal Oxide	AA
R312	VRD-RA2HD472J	R	4.7k 1/2W Carbon	AA	R518	VRD-RA2HD1R5J	R	1.5 1/2W Carbon	AA
R313	VRD-RA2HD472J	R	4.7k 1/2W Carbon	AA	R519	VRS-TV1JD103J	R	10k 1/16W Metal Oxide	AA
R314	VRD-RA2HD472J	R	4.7k 1/2W Carbon	AA	R520	VRS-TV1JD222J	R	2.2k 1/16W Metal Oxide	AA
R315	VRS-TV1JD821J	R	820 1/16W Metal Oxide	AA	R524	VRS-TV1JD000J	R	0 1/8W Metal Oxide	AA
R316	VRD-RA2BE103J	R	10k 1/8W Carbon	AA	R525	VRS-TV1JD122J	R	1.2k 1/16W Metal Oxide	AA
R317	VRS-TV1JD102J	R	1k 1/16W Metal Oxide	AA	R528	VRS-TV1JD184J	R	180k 1/16W Metal Oxide	AA
R318	VRS-TV1JD153J	R	15k 1/16W Metal Oxide	AA	R529	VRS-TV1JD102J	R	1k 1/16W Metal Oxide	AA
R362	VRS-TV1JD222J	R	2.2k 1/16W Metal Oxide	AA	R530	VRS-TV1JD332J	R	3.3k 1/16W Metal Oxide	AA
R363	VRS-TV1JD102J	R	1k 1/16W Metal Oxide	AA	R531	VRS-TV1JD101J	R	100 1/16W Metal Oxide	AA
R364	VRS-TV1JD471J	R	470 1/16W Metal Oxide	AA	R601	VRD-RA2BE123J	R	12k 1/8W Carbon	AA
R365	VRD-RA2BE221J	R	220 1/8W Carbon	AA	R602	VRD-RA2HD331J	R	330 1/2W Carbon	AA
R366	VRD-RA2BE221J	R	220 1/8W Carbon	AA	△ R603	RR-XZ0200BMZZ	S	1 1/2W Fuse Resistor	AB
R404	VRS-TV1JD102J	R	1k 1/16W Metal Oxide	AA	R604	VRD-RA2HD1R5J	R	1.5 1/2W Carbon	AA
R407	VRD-RA2HD680J	R	68 1/2W Carbon	AA	R605	VRD-RA2HD1R5J	R	1.5 1/2W Carbon	AA
R408	VRD-RA2BE221J	R	220 1/8W Carbon	AA	R607	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R410	VRD-RA2BE820J	R	82 1/8W Carbon	AA	R608	VRD-RA2BE222J	R	2.2k 1/8W Carbon	AA
R412	VRS-TV1JD222J	R	2.2k 1/16W Metal Oxide	AA	R609	VRN-VV3AB3R3J	R	3.3 1W Metal Film	AA
R414	VRD-RA2BE820J	R	82 1/8W Carbon	AA	R610	VRD-RA2HD222J	R	2.2k 1/2W Carbon	AA
R415	VRS-TV1JD222J	R	2.2k 1/16W Metal Oxide	AA	△ R611	RR-XZ0242BMZZ	S	3.3k 1/2W Fuse Resistor	AB
R416	VRS-TV1JD102J	R	1k 1/16W Metal Oxide	AA	R612	VRS-TV1JD153J	R	15k 1/16W Metal Oxide	AA
R417	VRD-RA2BE820J	R	82 1/8W Carbon	AA	R613	VRS-TV1JD101J	R	100 1/16W Metal Oxide	AA
R418	VRS-TV1JD102J	R	1k 1/16W Metal Oxide	AA	R615	VRS-TV1JD153J	R	15k 1/16W Metal Oxide	AA
R419	VRS-TV1JD222J	R	2.2k 1/16W Metal Oxide	AA	R616	VRS-VV3DB270J	R	27 2W Metal Oxide	AA
R420	VRD-RA2BE820J	R	82 1/8W Carbon	AA	R618	VRD-RA2HD102J	R	1k 1/2W Carbon	AA
R421	VRS-TV1JD470J	R	47 1/16W Metal Oxide	AA	R619	VRS-VV3DB220J	R	22 2W Metal Oxide	AA
R422	VRS-TV1JD104J	R	100k 1/16W Metal Oxide	AA	R620	VRD-RA2HD102J	R	1k 1/2W Carbon	AA
R423	VRS-TV1JD472J	R	4.7k 1/16W Metal Oxide	AA	R621	VRS-TV1JD103J	R	10k 1/16W Metal Oxide	AA
R424	VRS-TV1JD103J	R	10k 1/16W Metal Oxide	AA	R622	VRS-TV1JD153J	R	15k 1/16W Metal Oxide	AA
R425	VRS-TV1JD104J	R	100k 1/16W Metal Oxide	AA	R623	VRS-TV1JD224J	R	220k 1/16W Metal Oxide	AA
R426	VRS-TV1JD682J	R	6.8k 1/16W Metal Oxide	AA	R624	VRS-TV1JD564J	R	560k 1/16W Metal Oxide	AA
R427	VRS-TV1JD682J	R	6.8k 1/16W Metal Oxide	AA	R632	VRD-RA2HD471J	R	470 1/2W Carbon	AA
R428	VRS-TV1JD104J	R	100k 1/16W Metal Oxide	AA	R633	VRS-TV1JD153J	R	15k 1/16W Metal Oxide	AA
R429	VRD-RA2BE331J	R	330 1/8W Carbon	AA	R702	VRD-RA2HD224J	R	220k 1/2W Carbon	AA
R434	VRS-TV1JD102J	R	1k 1/16W Metal Oxide	AA	R703	VRW-KP3HC5R6K	R	5.6 5W Cement	AC
R435	VRS-TV1JD472J	R	4.7k 1/16W Metal Oxide	AA	R704	VRD-RA2HD564J	R	560k 1/2W Carbon	AA
R436	VRS-TV1JD472J	R	4.7k 1/16W Metal Oxide	AA	R705	VRD-RA2HD564J	R	560k 1/2W Carbon	AA
R437	VRS-TV1JD472J	R	4.7k 1/16W Metal Oxide	AA	R706	VRN-VV3ABR27J	R	0.27 1W Metal Film	AA
R500	VRS-TV1JD473J	R	47k 1/16W Metal Oxide	AA	R707	VRD-RA2BE221J	R	220 1/8W Carbon	AA
R501	VRD-RA2HD102J	R	1k 1/2W Carbon	AA	R708	VRD-RA2HD102J	R	1k 1/2W Carbon	AA
R502	VRS-VV3AB182J	R	1.8k 1W Metal Oxide	AA	R709	VRD-RA2BE330J	R	33 1/8W Carbon	AA
R503	VRS-TV1JD472J	R	4.7k 1/16W Metal Oxide	AA	R710	VRD-RA2HD102J	R	1k 1/2W Carbon	AA
△ R504	RR-XZ0104BMZZ	S	2.2 1/3W Fuse Resistor	AB	R711	VRD-RA2BE561J	R	560 1/8W Carbon	AA
R505	VRS-TV1JD182J	R	1.8k 1/16W Metal Oxide	AA	R712	VRD-RA2EE561J	R	560 1/4W Carbon	AA
△ R506	RR-XZ0100BMZZ	S	1 1/3W Fuse Resistor	AB	R713	VRS-TV1JD220J	R	22 1/16W Metal Oxide	AA
R507	VRD-RA2HD561J	R	560 1/2W Carbon	AA	R714	VRS-TV1JD101J	R	100 1/16W Metal Oxide	AA
					R715	VRS-TV1JD152J	R	1.5k 1/16W Metal Oxide	AA
					R716	VRS-TV1JD123J	R	12k 1/16W Metal Oxide	AA
					R717	VRS-TV1JD4R7J	R	4.7 1/16W Metal Oxide	AA
					R719	VRD-RA2HD181J	R	180 1/2W Carbon	AA

Ref. No.	Part No.	★	Description	Code
PWB-A DUNTK7213BMW1				
MOTHER UNIT(Continued)				
RESISTORS(Continued)				
R720	VRD-RA2BE223J	R 22k	1/8W Carbon	AA
△ R721	VRC-UA2HG825K	R 8.2M	1/2W Solid	AA
△ R722	VRC-UA2HG825K	R 8.2M	1/2W Solid	AA
R724	VRS-TV1JD471J	R 470	1/16W Metal Oxide	AA
R725	VRS-TV1JD222J	R 2.2k	1/16W Metal Oxide	AA
R729	VRD-RA2EE472J	R 4.7k	1/4W Carbon	AA
△ R730	RR-XZ0204BMZZ	S 2.2	1/2W Fuse Resistor	AB
R801	VRS-TV1JD104J	R 100k	1/16W Metal Oxide	AA
R802	VRS-TV1JD221J	R 220	1/16W Metal Oxide	AA
R803	VRS-TV1JD4R7J	R 4.7	1/16W Metal Oxide	AA
R804	VRS-TV1JD393J	R 39k	1/16W Metal Oxide	AA
R805	VRS-TV1JD395J	R 3.9M	1/16W Metal Oxide	AA
R806	VRS-TV1JD2R2J	R 2.2	1/16W Metal Oxide	AA
R807	VRS-TV1JD221J	R 220	1/16W Metal Oxide	AA
R809	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R810	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R814	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R815	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R816	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R825	VRS-TV1JD682J	R 6.8k	1/16W Metal Oxide	AA
R834	VRS-TV1JD102J	R 1k	1/16W Metal Oxide	AA
R836	VRD-RA2BE681J	R 680	1/8W Carbon	AA
R837	VRS-TV1JD000J	R 0	1/16W Metal Oxide	AA
R838	VRS-TV1JD821J	R 820	1/16W Metal Oxide	AA
R901	VRS-TV1JD102J	R 1k	1/16W Metal Oxide	AA
R902	VRS-TV1JD103J	R 10k	1/16W Metal Oxide	AA
R903	VRD-RA2BE470J	R 47	1/8W Carbon	AA
R1001	VRS-TV1JD472J	R 4.7k	1/16W Metal Oxide	AA
R1002	VRS-TV1JD472J	R 4.7k	1/16W Metal Oxide	AA
R1003	VRS-TV1JD103J	R 10k	1/16W Metal Oxide	AA
R1004	VRS-TV1JD392J	R 3.9k	1/16W Metal Oxide	AA
R1005	VRS-TV1JD102J	R 1k	1/16W Metal Oxide	AA
R1006	VRS-TV1JD102J	R 1k	1/16W Metal Oxide	AA
R1007	VRS-TV1JD102J	R 1k	1/16W Metal Oxide	AA
R1008	VRD-RA2BE102J	R 1k	1/8W Carbon	AA
R1009	VRS-TV1JD391J	R 390	1/16W Metal Oxide	AA
R1010	VRS-TV1JD391J	R 390	1/16W Metal Oxide	AA
R1011	VRS-TV1JD391J	R 390	1/16W Metal Oxide	AA
R1013	VRS-TV1JD561J	R 560	1/16W Metal Oxide	AA
R1015	VRS-TV1JD000J	R 0	1/16W Metal Oxide	AA
R1016	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R1017	VRS-TV1JD473J	R 47k	1/16W Metal Oxide	AA
R1021	VRS-TV1JD223J	R 22k	1/16W Metal Oxide	AA
R1022	VRS-TV1JD103J	R 10k	1/16W Metal Oxide	AA
R1024	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R1026	VRS-TV1JD103J	R 10k	1/16W Metal Oxide	AA
R1027	VRS-TV1JD332J	R 3.3k	1/16W Metal Oxide	AA
R1028	VRS-TV1JD332J	R 3.3k	1/16W Metal Oxide	AA
R1029	VRS-TV1JD103J	R 10k	1/16W Metal Oxide	AA
R1030	VRD-RA2BE392J	R 3.9k	1/8W Carbon	AA
R1031	VRS-TV1JD103J	R 10k	1/16W Metal Oxide	AA
R1033	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R1034	VRS-TV1JD153J	R 15k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R1035	VRS-TV1JD223J	R 22k	1/16W Metal Oxide	AA
R1037	VRS-TV1JD103J	R 10k	1/16W Metal Oxide	AA
R1038	VRS-TV1JD221J	R 220	1/16W Metal Oxide	AA
R1039	VRS-TV1JD221J	R 220	1/16W Metal Oxide	AA
R1041	VRS-TV1JD221J	R 220	1/16W Metal Oxide	AA
R1048	VRD-RA2HD472J	R 4.7k	1/2W Carbon	AA
R1049	VRD-RA2HD472J	R 4.7k	1/2W Carbon	AA
R1056	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R1058	VRS-TV1JD472J	R 4.7k	1/16W Metal Oxide	AA
R1059	VRD-RA2HD472J	R 4.7k	1/2W Carbon	AA
R1060	VRS-TV1JD103J	R 10k	1/16W Metal Oxide	AA
R1061	VRS-TV1JD221J	R 220	1/16W Metal Oxide	AA
R1062	VRS-TV1JD121J	R 120	1/16W Metal Oxide	AA
R1063	VRD-RA2BE181J	R 180	1/8W Carbon	AA
R1064	VRS-TV1JD392J	R 3.9k	1/16W Metal Oxide	AA
R1066	VRS-TV1JD103J	R 10k	1/16W Metal Oxide	AA
R1068	VRS-TV1JD683J	R 68k	1/16W Metal Oxide	AA
R1069	VRS-TV1JD682J	R 6.8k	1/16W Metal Oxide	AA
R1070	VRS-TV1JD682J	R 6.8k	1/16W Metal Oxide	AA
R1071	VRS-TV1JD682J	R 6.8k	1/16W Metal Oxide	AA
R1072	VRS-TV1JD684J	R 680k	1/16W Metal Oxide	AA
R1073	VRS-TV1JD222J	R 2.2k	1/16W Metal Oxide	AA
R1075	VRS-TV1JD103J	R 10k	1/16W Metal Oxide	AA
R1077	VRS-TV1JD472J	R 4.7k	1/16W Metal Oxide	AA
R1078	VRS-TV1JD271J	R 270	1/16W Metal Oxide	AA
R1080	VRS-TV1JD332J	R 3.3k	1/16W Metal Oxide	AA
R1081	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R1082	VRS-TV1JD101J	R 100	1/16W Metal Oxide	AA
R1083	VRD-RA2BE331J	R 330	1/8W Carbon	AA
R1085	VRD-RA2BE101J	R 100	1/8W Carbon	AB
R1086	VRS-TV1JD392J	R 3.9k	1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

△ S701	QSW-P0588CEZZ	J Switch	AP
S1001	QSW-K0079GEZZ	J Switch	AB
S1002	QSW-K0079GEZZ	J Switch	AB
S1003	QSW-K0079GEZZ	J Switch	AB
S1004	QSW-K0079GEZZ	J Switch	AB
△ F701	QFS-C3226CEZZ	R Fuse T3.15A	AE
FB201	RBLN-0037CEZZ	R Balun	AB
FB301	RBLN-0037CEZZ	R Balun	AB
FB304	RBLN-0037CEZZ	R Balun	AB
FB352	RBLN-0037CEZZ	R Balun	AB
FB801	RBLN-0037CEZZ	R Balun	AB
FB1001	RBLN-0037CEZZ	R Balun	AB
FB1002	RBLN-0037CEZZ	R Balun	AB
FH1001	QFSHD1017CEZZ	R Fuse Holder	AC
FH1002	QFSHD1018CEZZ	R Fuse Holder	AC
RMC1	RRMCU0222CEZZ	R Remote Receiver	AL
	QCNW-2710BMZZ	S Connecting Cord	AF
	QCNW-2711BMZZ	S Connecting Cord	AG
△ P702	QPLGN0207CEZZ	R Plug	AA
P301	QPLGN0241CEZZ	R Plug	AA
△ P701	QPLGN0304CEZZ	R Plug	AB
P601	QPLGN0505CEZZ	R Plug	AB
SC401	QSOCZ2107BMZZ	S Socket	AE
	MSPRK0042BMFW	S Spring	AB

Ref. No. Part No. ★ Description Code

PWB-A DUNTK7213BMW1 MOTHER UNIT(Continued)

MISCELLANEOUS PARTS(Continued)

	MSPRK1003BMFW	S Spring	AB
P201	QTIPM0017CEFM	R Tip	AA
	LHLDLC3009CEFN	R Holder	AC
	LHLDLC3500BMFW	S Holder	AC
	LHLDW1060CEZZ	R Holder	AB
	LHLDW1514BM00	S Holder	AA
	LX-TZ3008MEFD	R Screw	AD
	LHLDK1501BM00	S Holder	AB
	LHLDZ1714BMZZ	S Holder	AC
△	QACCZ2100BMSA	S AC Cord	AR
	QCNW-2689BMZZ	S Connecting Cord	AF
	QCNW-2763BMZZ	S Connecting Cord	AL
	QCNW-3054BMZZ	S Connecting Cord	AD
	VSP0010PBQ4WA	S Speaker	AR
	LHLDW1033CE00	R Holder	AA
	LHLDW1060CEZZ	R Holder	AB
	LHLDW1506BMZZ	S Holder	AA
	PSLDM3976BMFW	S Shield Case	—
	PRDAR5510BMFW	S Radiator	—
	PRDAR5525BMFW	S Radiator	—

— End of PWB-A PARTS —

Ref. No. Part No. ★ Description Code

PWB-B DUNTK7214BMW1 CRT SOCKET UNIT

TRANSISTORS

Q870	RH-TX0181BMZZ	S BF422	AB
Q871	RH-TX0181BMZZ	S BF422	AB
Q872	RH-TX0181BMZZ	S BF422	AB
Q883	RH-TX0180BMZZ	S BF421	AB
Q885	RH-TX0180BMZZ	S BF421	AB
Q887	RH-TX0180BMZZ	S BF421	AB

DIODES

D811	RH-DX0045BMZZ	S Diode IN4148	AA
D812	RH-DX0045BMZZ	S Diode IN4148	AA
D880	RH-DX0045BMZZ	S Diode IN4148	AA
D881	RH-DX0045BMZZ	S Diode IN4148	AA
D882	RH-DX0045BMZZ	S Diode IN4148	AA

COIL

L881	VP-CF120K0000	R Peaking 12μH	AB
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CAPACITORS

C871	VCCSTV1HL471J	R 470p 50V Ceramic	AA
C872	VCCSTV1HL471J	R 470p 50V Ceramic	AA
C873	VCCSTV1HL471J	R 470p 50V Ceramic	AA
C874	VCKYPA2HB102K	R 1000p 500V Ceramic	AA
C876	RC-KZ0023CEZZ	R 0.047 2kV Ceramic	AD
C878	VCEAGA2DW106M	R 10 200V Electrolytic	AC
C880	VCCSTV1HL471J	R 470p 50V Ceramic	AA
C881	VCCSTV1HL471J	R 470p 50V Ceramic	AA
C882	VCCSTV1HL471J	R 470p 50V Ceramic	AA
C883	VCCCTV1HH101J	R 100p 50V Ceramic	AA
C884	VCCCTV1HH101J	R 100p 50V Ceramic	AA
C885	VCCCTV1HH101J	R 100p 50V Ceramic	AA

RESISTORS

R879	VRS-TV1JD471J	R 470 1/16W Metal Oxide	AA
R880	VRS-TV1JD471J	R 470 1/16W Metal Oxide	AA
R881	VRS-TV1JD471J	R 470 1/16W Metal Oxide	AA
R882	VRS-VV3DB153J	R 15k 2W Metal Oxide	AA
R883	VRD-RA2HD272J	R 2.7k 1/2W Carbon	AA
R884	VRS-VV3DB153J	R 15k 2W Metal Oxide	AA
R885	VRD-RA2HD272J	R 2.7k 1/2W Carbon	AA
R886	VRS-VV3DB153J	R 15k 2W Metal Oxide	AA
R887	VRD-RA2HD272J	R 2.7k 1/2W Carbon	AA
R892	VRS-TV1JD102J	R 1k 1/16W Metal Oxide	AA
R893	VRS-TV1JD102J	R 1k 1/16W Metal Oxide	AA
R894	VRS-TV1JD102J	R 1k 1/16W Metal Oxide	AA
R895	VRS-TV1JD471J	R 470 1/16W Metal Oxide	AA
R896	VRS-TV1JD471J	R 470 1/16W Metal Oxide	AA
R899	VRS-TV1JD471J	R 470 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

△ SC881	QSOCV0103BMZZ	S Socket	AG
P881	QTIPM0017CEFM	R Tip	AA
P883	QTIPM0017CEFM	R Tip	AA

— End of PWB-B PARTS —

Ref. No.	Part No.	★	Description	Code
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SUPPLIED ACCESSORIES

	RRMCG1059BMSA	S	Infrared R-C	AS
	TINS-6494BMN0	S	Instruction Book	AH
	TGAN-1505BMZZ	S	Guarantee Card	AC
	UBATU0007UMZZ	-	Battery	—

— End of SUPPLIED ACCESSORIES —

LABELS**(NOT REPLACEMENT ITEM)**

	TLABK0001TAF7	-	Label	—
	TLABM5451BMZZ	-	Label	—
	TLABN0130BMN7	-	Label	—
	TLABN0132BMZZ	-	Label	—
	TLABV2408BMZZ	-	Label	—

— End of LABELS —

PACKING PARTS**(NOT REPLACEMENT ITEM)**

	SPAKC5361BMZZ	-	Packing Case	—
	SPAKX4048BMZZ	-	Packing Add.	—
	SSAKA1004BMZZ	-	Polyethylene Bag	—

— End of PACKING PARTS —

Ref. No.	Part No.	★	Description	Code
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CABINET PARTS

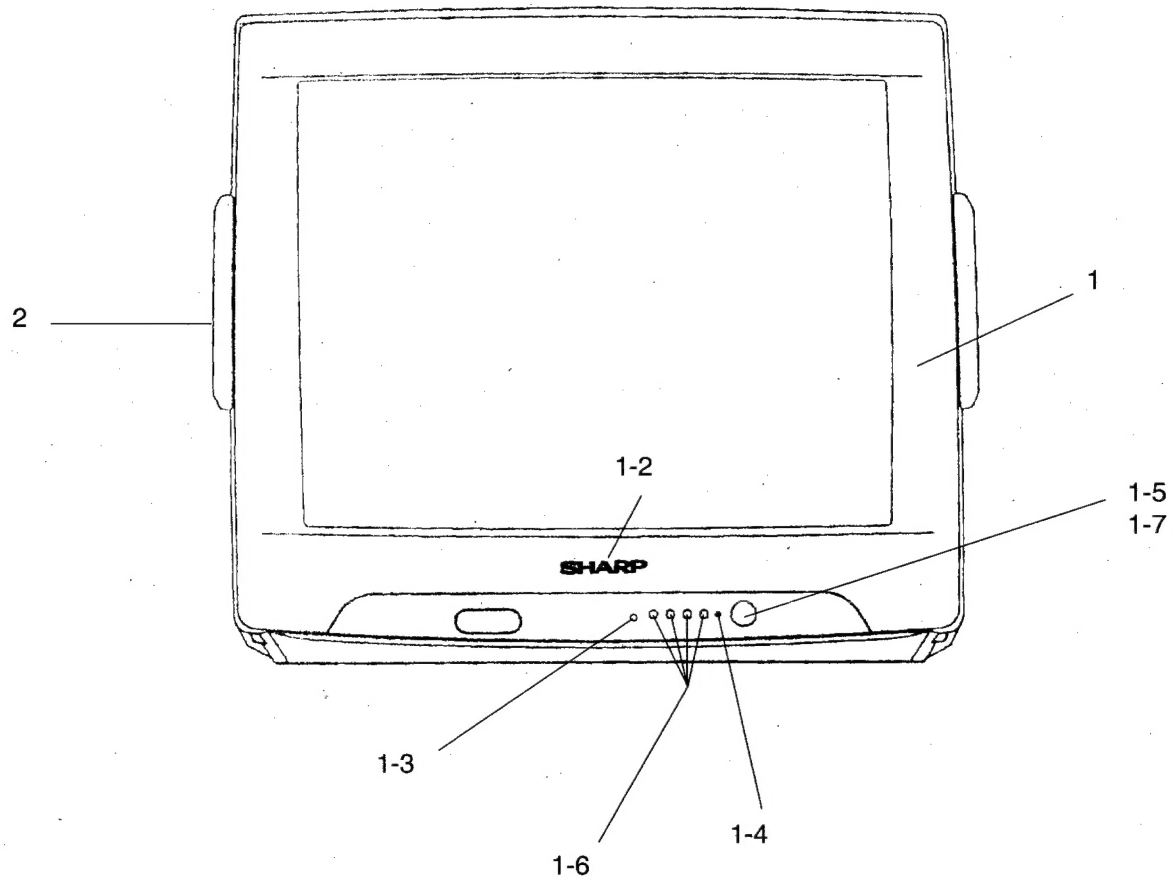
1	CCABA1201BMV1	S	Front Cabinet Assys	BD
1-1	Not Available	-	Front Cabinet	
1-2	HBDGB3509BMSA	S	SHARP Badge	AC
1-3	HDECQ0023BMSA	S	R/C Dec.	AB
1-4	HDECQ0024BMSA	S	LED Dec.	AB
1-5	JBTN-1040BMSA	S	Button, Power	AB
1-6	JBTN-1041BMSA	S	Button, Up/Down	AC
1-7	MSPRC0106BMFW	S	Spring, Button Power	AA
2	GCABB1069BMKA	S	Cabinet, Rear	AZS

SCREWS

	XTASD30P12000	S	Screw	AA
	XTASB40P20000	S	Screw	AA

— End of CABINET PARTS —

54DM-12FP



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